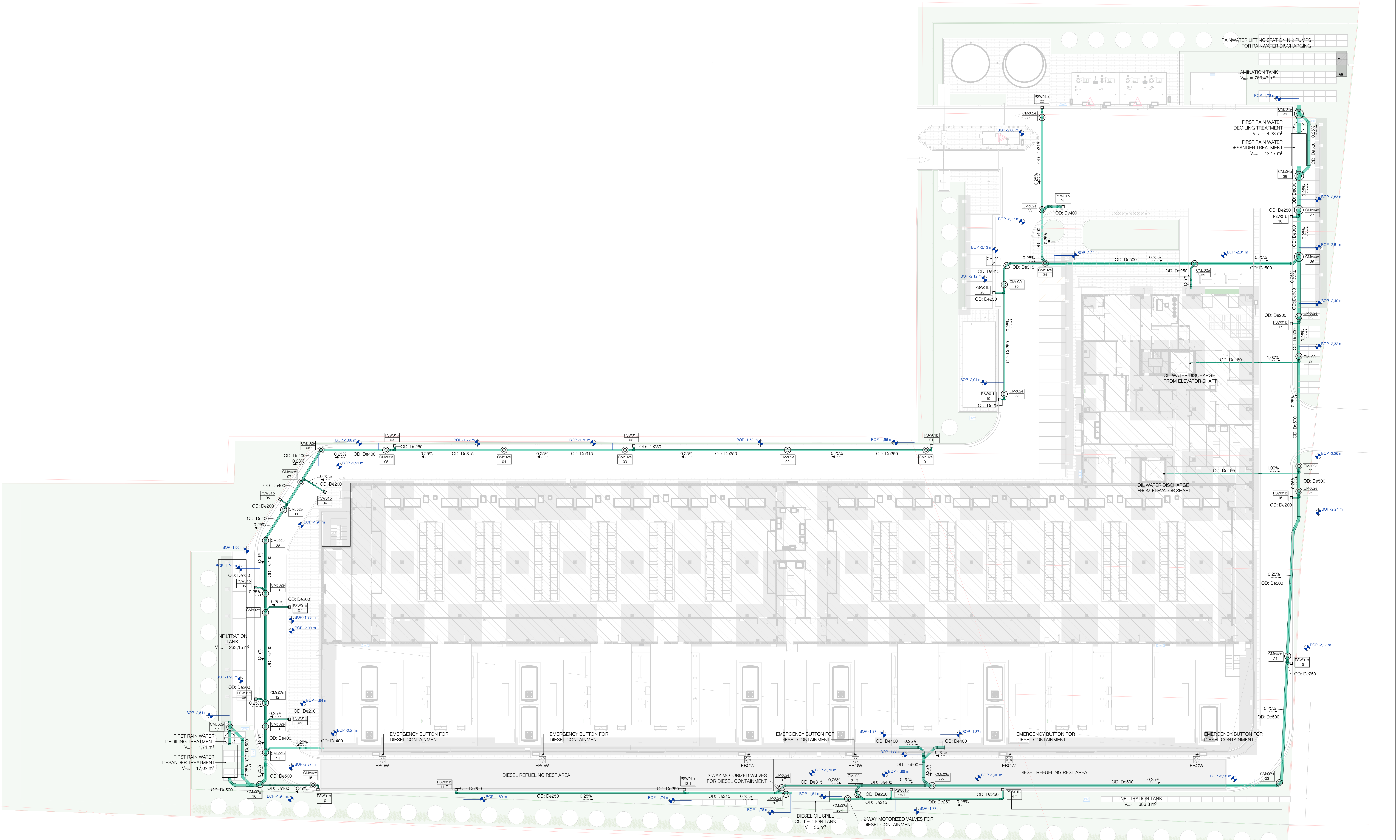
A0 - Do not scale


RAINWATER LIFTING STATION N.2 PUMPS FOR RAINWATER DISCHARGING
LAMINATION TANK V_{min} = 763,47 m³
FIRST RAIN WATER DEOILING TREATMENT V_{min} = 4,23 m³
FIRST RAIN WATER DESANDER TREATMENT V_{min} = 42,17 m³
BOP -1,78 m
CMc04e 39
CMc04e 38
CMc04e 37
CMc04e 36
PSW01b 22
CMc02e 32
BOP -2,08 m
OD: De315
0,25%
PSW01b 21
CMc02e 33
OD: De400
BOP -2,17 m
BOP -2,13 m
CMc02e 31
OD: De315
BOP -2,12 m
CMc02e 30
PSW01b 20
OD: De250
BOP -2,24 m
CMc02e 34
OD: De500
BOP -2,31 m
OD: De250
CMc02e 35
OD: De500
OD: De800
BOP -2,53 m
BOP -2,51 m
OD: De250
PSW01b 18
OD: De630
BOP -2,40 m
OD: De200
CMc02e 28
PSW01b 17
BOP -2,32 m
CMc02e 27
OD: De160
1,00%
OIL WATER DISCHARGE FROM ELEVATOR SHAFT
BOP -2,04 m
PSW01b 19
CMc02e 29
BOP -2,26 m
CMc02e 26
OD: De500
CMc02e 25
PSW01b 16
OD: De200
BOP -2,24 m
PSW01b 01
CMc02e 01
BOP -1,56 m
CMc02e 02
BOP -1,62 m
PSW01b 02
CMc02e 03
BOP -1,73 m
CMc02e 04
BOP -1,79 m
PSW01b 03
CMc02e 05
BOP -1,88 m
CMc02e 06
OD: De400
0,23%
BOP -1,91 m
CMc02e 07
OD: De200
PSW01b 04
PSW01b 05
CMc02e 08
BOP -1,94 m
CMc02e 09
BOP -1,96 m
0,26%
BOP -1,91 m
PSW01b 06
CMc02e 10
CMc02e 11
PSW01b 07
BOP -1,89 m
BOP -2,00 m
INFILTRATION TANK V_{min} = 233,15 m³
BOP -1,93 m
PSW01b 08
CMc02e 12
PSW01b 09
CMc02e 13
CMc02e 14
BOP -2,51 m
CMc02e 17
FIRST RAIN WATER DEOILING TREATMENT V_{min} = 1,71 m³
FIRST RAIN WATER DESANDER TREATMENT V_{min} = 17,02 m³
BOP -2,97 m
CMc02e 15
CMc02g 16
OD: De160
PSW01b 10
BOP -0,51 m
EMERGENCY BUTTON FOR DIESEL CONTAINMENT
EBOW
DIESEL REFUELING REST AREA
PSW01b 11-T
BOP -1,60 m
PSW01b 12-T
BOP -1,74 m
2 WAY MOTORIZED VALVES FOR DIESEL CONTAINMENT
CMc02e 19-T
CMc02e 18-T
BOP -1,78 m
BOP -1,79 m
BOP -1,81 m
DIESEL OIL SPILL COLLECTION TANK V = 35 m³
CMc02e 20-T
CMc02e 21-T
BOP -1,86 m
BOP -1,87 m
BOP -1,88 m
CMc02e 22-T
PSW01b 13-T
BOP -1,77 m
PSW01b 14-T
BOP -1,96 m
INFILTRATION TANK V_{min} = 383,8 m³
BOP -2,10 m
CMc02e 23
CMc02e 24
PSW01b 15
BOP -2,17 m

Oilwater Drainage System
1 : 250

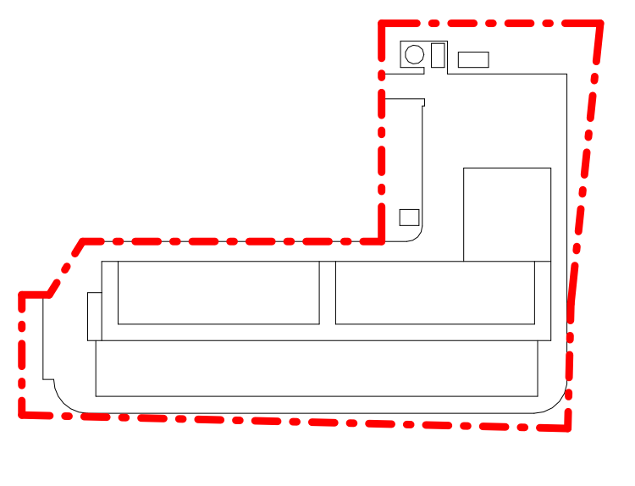
Firmato digitalmente da:
Roberto Cereda
Data: 01/08/2025 12:40:20

General Notes

1. This drawing has been checked in accordance with Black & White Engineering (B&W) QA checking procedures.
2. Do not scale from this drawing. All dimensions indicated are in millimeters unless otherwise stated. Validate all measurements on site.
3. All plant and equipment dimensions are typical. The Contractor should show actual, approved plant and equipment sizes.
4. This drawing is to be read in conjunction with all relevant B&W MEP specifications, schedules and standard key to symbols sheet.
5. Any discrepancies between the drawings and other documents should be brought to the attention of the engineer.
6. This drawing is not an installation drawing. It is the Contractors responsibility to make final coordinated installation shop drawings.
7. Final ceiling coordination subject to interior design package.
8. Contractor to coordinate final distribution routes with available sleeves and openings in beams / structure.
9. The contents of this drawing shall be read in conjunction with the current revisions of other relevant Architectural, Structural, Mechanical and Electrical drawings and all relevant sections of the specifications.

2500 0 2500 5000 7500 10000
SCALE: 1:250
N

Key Plan



Legend: Pipe Systems

OD — Oil water

BOP -2,35 m — Bottom of pipe's quote - BOP

Manhole Tag

Object code → PXXX
Height → XXX
YYY ← progessive number

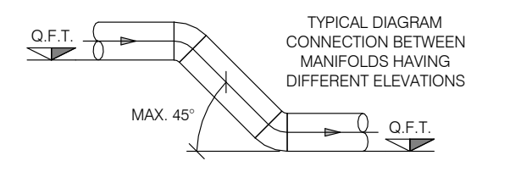
Object code → DXXX
Progressive number → DXXX

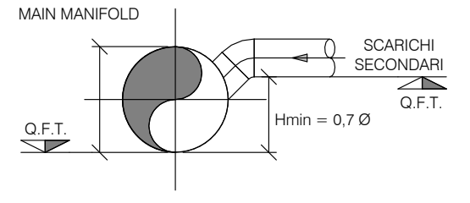
5300 Schedule Plumbing Fixtures				
Type Mark	Length	Width	Diameter	Height
CMc02e			600,00	
CMc02g			600,00	
CMc04e			850,00	
PSW01b	500,00	500,00		500,00

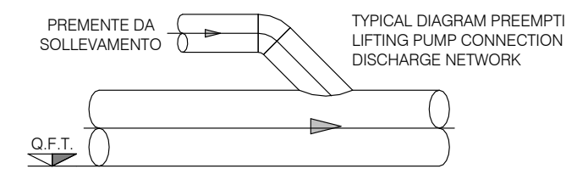
NOTES PLUMBING AND DRAINAGE SYSTEMS:

- Supply piping for the water and sanitary utilities within the toilets will be made of multilayer from manifolds.
- In case of supply not derived from manifold, place recessed shut-off taps with cap for each water utility.
- Provide vents at high points and drains (connected to prepared manholes or conduits) at low points, in locations agreed with the DL.
- All drain risers should be equipped with inspectable siphon at the foot, extended above the roof and adequately ventilated.
- Condensate water collection networks must be separate and distinct from those into which they flow by the interposition of permanently wet or dry inspectable odor trap.
- Graywater collection networks must be separate and distinct from those into which they flow by the interposition of an inspectable siphon.
- Stormwater collection networks shall be separate and distinct from blackwater to the collection sumps located upstream of the Inspection/Siphon/Brace unit feeding to the public sewer.
- All discharges collected below the level of discharge to the public sewer shall be conveyed to collection and lifting tanks equipped with electric pumps.
- Testing operations should be carried out while keeping the drainage network continuously visible.
- Provide inspection points in manifolds upstream of each confluence, bend or special piece.
- All discharge pipes, both main and secondary, except where otherwise indicated, shall have the following minimum slopes:

service drains to sewer risers	i=2%.
blackwater / grease collectors	i=1%.
stormwater / condensate manifolds	i=0.5%.


TYPICAL DIAGRAM CONNECTION BETWEEN MANIFOLDS HAVING DIFFERENT ELEVATIONS
Q.F.T.
MAX. 45°
Q.F.T.

TYPICAL DIAGRAM DRAINS CONNECTIONS SECONDARY TO MAIN MANIFOLD

SCARICHI SECONDARI
Q.F.T.
Hmin = 0,7 Ø
Q.F.T.


TYPICAL DIAGRAM PREEMPTING LIFTING PUMP CONNECTION WITH DISCHARGE NETWORK
PREMENTE DA SOLLEVAMENTO
Q.F.T.

GENERAL NOTES:
- Drawing valid only for mechanical installations under contract.
- All measurements and locations of materials and equipment are to be verified on site by the contractor, who shall promptly report any interference with existing.
- Any undetected equipment shall be maintained; if necessary, it shall be modified and restored by the contractor.
- Exact locations of equipment, materials, piping, ducts, connection to existing facilities shall be determined by the contractor and submitted to the construction manager.
- Final sizing according to the manufacturer of the equipment and materials actually installed.
- All equipment must be easily maintainable and accessible via trapdoors or similar solutions even where not specifically specified.
- It will be the contractor's responsibility to size and asseverate all supports, in a workmanlike manner and in compliance with all regulatory requirements for earthquake-proofing.
- Construction detail drawings necessary for the proper execution of the work shall be arranged by the contractor.
- The installation of elements in the field must comply with all manufacturers' prescriptions and recommendations, good engineering rules on acoustics and fire prevention.
- All planned and described interventions, evaluated on the basis of the available documentation, should be re-evaluated and deepened during the works, after plant verification following appropriate surveys of the existing situation.
- The contractor must carefully check the design and report any inaccuracies, incompleteness or discrepancies with any standard or law.
-Connections between two or more sections of duct both with indoor units and with ducts themselves, shall be made only with invitation fittings and not wit hammered derivations or detachments. The Contractor shall be responsible for making construction drawings showing the type of derivations and connections between ducts and ducts with the indoor units provided.

Rev	Details	By / Chkd / App	Date
P02	STAGE 3 - 100% ISSUE	L22	28/02/2025
P01	STAGE 2	L22	11/10/2024

Client
STACK INFRASTRUCTURE

Lead Consultant / MEP Designer

Office No. 1801
Marina Plaza
Dubai marina
PO Box 27793
Tel: +971 4 365 2228
www.bw-engineering.com

Designer / Architect / Civil
L22

L22 è una divisione di:
Lombardini22 S.p.A.
Via Lombardini 22
T +39 02 36 59 62 00
info@l22.it
20143 Milano, Italia
F +39 02 83 20 13 97
www.l22.it

Structural
SPS
Studio Progetti Strutturali

Ing. Arturo Donadio
S.P.S. S.r.l.
www.spssrl-mi.it
Via M. Gioia, 64 - 20125 Milano, Italia
segreteria@spssrl-mi.it T. 02/6694887

Project Title
MIL05B

Drawing Title
External Services
Sitewide Oilwater Drainage

Project Status
STAGE 3

Discipline
MECHANICAL

Status Code
S4

Project Number
P10504

Scale @ A0
1:250

Revision
P02

Drawing Number
MIL05B-L22-SW-SW-DR-M-90204

Autodesk Docs://P10504_STA MIL05B/MIL05B-L22-SW-XX-M3-M-00001.rvt 27/02/2025 16:42:19 © Black & White Engineering A0v_Frame_Rev 00